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**From:** LEE, LILY[/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D6085A744F9347E6836C54C0E85B97B2-LLEE06]  
**Sent:** Wed 4/26/2017 7:57:49 PM (UTC)  
**Subject:** Spreadsheets & map showing samples collected 7-2008 to 6-2011  
[HPNS Tetra Tech Ra-226 soil samples 7-2008 to 6-2011 NIRIS.pdf](#)  
[NIRIS Rad soil Hunters Pt 7-2008 to 6-2011 lat long.xlsx](#)  
[HPNS Rad Soil Ra-226 7-2008 to 6-2011 To Plot w Parcel Names.xlsx](#)  
[HPNS Rad Soil Ra-226 7-2008 to 6-2011 To Plot NO Parcel Names.xlsx](#)

Dear Pat,

Earlier, John Chesnutt had sent EPA recommendations regarding categories of areas of concern for future sampling. These priorities could also apply for statistical analysis. One of those areas was allegations from former workers.

At least one former worker alleges that he observed swapping of soil samples occurred beginning in late 2008. The NRC concluded an enforcement action based on evidence of a practice of swapping soil samples from 5 to 10 feet away from the correct location between November 18, 2011, and June 4, 2012. Workers have later alleged that at first the swapped samples came from closer to the original correct locations, but they alleged that later, the practice changed to swapping samples from farther away, a practice that would be easier to identify through discrepancies, such as in K-40 concentrations. The 2014 Tetra Tech internal investigation found confirmed falsification discovered through comparing K-40 concentrations beginning June 7, 2011. So it is possible that the practice of swapping samples from nearby could have occurred mainly between late 2008 and June, 2011.

I have taken the NIRIS spreadsheet that Danielle gave me previously, and I filtered dates to create the attached spreadsheets and map showing Tetra Tech EC samples of Ra-226 with collection dates 7/1/2008 – 6/30/2011. We added lat/long coordinates. The separate spreadsheets named “to plot” were created for our GIS technicians to use for creating the map. I understand that the NIRIS spreadsheet has limits, but it was all I have. And we have many unknowns. So this is just a rough screening potential indicator for narrowing scope of concerns about a particular type of falsification described in the NRC enforcement action.

Please let me know if you have any questions. Thanks!

NOTE: This email contains information obtained as part of ongoing investigations. I am sending it to internal (Federal employees and their contractors) parties only. Please protect as confidential.